

Comparisons of Job Characteristics

Focus Occupation: [Operating Engineers and Other Construction Equipment Operators \(47-2073\)](#)

Associated Occupation: [Highway Maintenance Workers \(47-4051\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 76

Focus Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073)

Associated Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Public Safety and Security	6.9	14.2	10.5	<< Extensive education and/or training may be required
Building and Construction	4.0	12.2	15.0	> Current knowledge level is likely sufficient
Transportation	4.6	10.6	5.8	<< Extensive education and/or training may be required
Law and Government	5.9	10.2	4.8	<< Extensive education and/or training may be required
Telecommunications	3.9	6.9	3.0	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 89

Focus Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073)

Associated Occupation: Highway Maintenance Workers (47-4051)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation and Control	5.4	11.4	13.4	> Skill level is likely sufficient
Operation Monitoring	6.6	11.4	10.0	< A higher skill level may be required
Troubleshooting	4.5	8.5	6.6	< A higher skill level may be required
Quality Control Analysis	5.9	8.4	7.5	< A higher skill level may be required
Equipment Maintenance	3.5	8.3	6.9	< A higher skill level may be required
Repairing	3.4	7.9	6.4	< A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 89			
Focus Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073) Associated Occupation: Highway Maintenance Workers (47-4051)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	13.3	12.6	0	Current ability level may be sufficient
Multilimb Coordination	6.0	12.9	13.2	0	Current ability level may be sufficient
Reaction Time	4.8	10.8	9.7	<	Some improvement in abilities may be required
Auditory Attention	5.9	10.5	7.5	<<	Extensive improvement in abilities may be required
Rate Control	3.8	9.8	8.6	<	Some improvement in abilities may be required
Response Orientation	4.0	9.8	8.7	<	Some improvement in abilities may be required
Speed of Limb Movement	3.2	8.7	4.8	<<	Extensive improvement in abilities may be required
Spatial Orientation	2.7	6.9	5.3	<	Some improvement in abilities may be required
Peripheral Vision	2.2	5.5	5.1	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 67
Focus Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073) Associated Occupation: Highway Maintenance Workers (47-4051)		
Work Activities	Exclusivity of Activity	
Operate tractor with accessories or attachments	76	
Understand construction specifications	53	
Use hand or power tools	2	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common	Similarity of Focus Occupation to Associated Occupation: 93
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Focus Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073)
Associated Occupation: Highway Maintenance Workers (47-4051)

Tools and Technologies	Exclusivity
Aerial lifts	13
Agricultural machinery for harvesting	35
Agricultural machinery for planting and seeding	33
Agricultural machinery for soil preparation	35
Cleaning equipment	11
Compressors	9
Computers	1
Dispersing and spraying appliances for agriculture	26
Drilling and operation machinery	29
Earth moving machinery	11
Forming tools	2
Garden tools	12
Heating equipment and parts and accessories	19
Heavy equipment components	21
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Paint applicators and painting accessories	15
Passenger motor vehicles	13
Paving equipment	35
Personal communication devices	2
Pneumatic tools	8
Power generators	16
Power tools	2
Product and material trailers	24
Product and material transport vehicles	13
Pumps	9
Soldering and brazing and welding machinery and supplies	6
Specialized and recreational vehicles	17
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.